Bicyclo[2.2.1]heptane, 2-ethenyl-

Other names: 2-Vinylbicyclo[2.2.1]heptane
Inchi: InChI=1S/C9H14/c1-2-8-5-7-3-4-9(8)6-7/h2,7-9H,1,3-6H2
InchiKey: PFUYSXSIHCSVJJ-UHFFFAOYSA-N
Formula: C9H14
SMILES: C=CC1CC2CCC1C2
Mol. weight [g/mol]: 122.21
CAS: 2146-39-6

Physical Properties

Property code	Value	Unit	Source
gf	214.43	kJ/mol	Joback Method
hf	15.44	kJ/mol	Joback Method
hfus	13.03	kJ/mol	Joback Method
hvap	34.65	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.609		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3127.99	kPa	Joback Method
tb	415.08	K	Joback Method
tc	618.50	K	Joback Method
tf	217.55	K	Joback Method
vc	0.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.12	J/mol×K	415.08	Joback Method
cpg	244.15	J/mol×K	448.98	Joback Method
cpg	261.07	J/mol×K	482.89	Joback Method
cpg	276.92	J/mol×K	516.79	Joback Method
cpg	291.79	J/mol×K	550.69	Joback Method
cpg	305.71	J/mol×K	584.59	Joback Method
cpg	318.75	J/mol×K	618.50	Joback Method
dvisc	0.0005567	Pa×s	217.55	Joback Method

dvisc	0.0005478	Pa×s	250.47	Joback Method
dvisc	0.0005411	Pa×s	283.39	Joback Method
dvisc	0.0005358	Pa×s	316.32	Joback Method
dvisc	0.0005315	Pa×s	349.24	Joback Method
dvisc	0.0005280	Pa×s	382.16	Joback Method
dvisc	0.0005251	Pa×s	415.08	Joback Method
hvapt	38.60	kJ/mol	367.50	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2146396&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume